

10724731

10/458135

Page 1

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NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	"Ask CAS" for self-help around the clock
NEWS	3	May 12 EXTEND option available in structure searching
NEWS	4	May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in CAPLUS
NEWS	6	May 27 CAPLUS super roles and document types searchable in REGISTRY
NEWS	7	Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS	8	Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS	9	Jul 12 BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	10	Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS	11	AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	12	AUG 02 CAPLUS and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13	AUG 02 STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14	AUG 02 The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	15	AUG 04 Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS	16	AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS	17	AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS	18	SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS	19	SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	20	SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS	21	SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ
NEWS EXPRESS		JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN		Welcome Banner and News Items
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:38:39 ON 16 SEP 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 12:39:09 ON 16 SEP 2004

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9

DICTIONARY FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

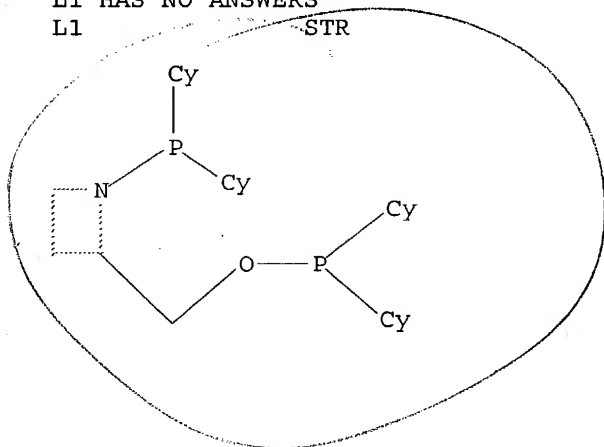
Uploading C:\Program Files\Stnexp\Queries\10724731C.str

L1 STRUCTURE UPLOADED

=> d L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s L1

SAMPLE SEARCH INITIATED 12:39:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.63

FILE 'CAPLUS' ENTERED AT 12:39:57 ON 16 SEP 2004
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FILE COVERS 1907 - 16 Sep 2004 VOL 141 ISS 12
FILE LAST UPDATED: 15 Sep 2004 (20040915/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L1

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 12:40:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

L4 0 L3

=> set extend on
SET COMMAND COMPLETED

=> s L1 full

REGISTRY INITIATEDSubstance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 12:41:34 FILE 'REGISTRY'

L5 6 SEA SSS FUL L1 EXTEND

CANDIDATE STRUCTURE SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

L6 5 SEA SSS FUL L1

L7 3 L6

=> d 1-3 ibib abs hitstr

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:714165 CAPLUS

DOCUMENT NUMBER: 137:232770

TITLE: Preparation of transition metal complexes containing
chiral phosphine ligands for use as asymmetric
hydrogenation catalysts

INVENTOR(S): Hassila, Heikki; Higashii, Takayuki

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1241174 A1 20020918 EP 2002-5894 20020314
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2002338589 A2 20021127 JP 2002-64944 20020311
 US 2003191324 A1 20031009 US 2002-97009 20020314
 US 6762306 B2 20040713
 US 2004110965 A1 20040610 US 2003-724731 20031202
 PRIORITY APPLN. INFO.: JP 2001-71784 A 20010314

OTHER SOURCE(S): MARPAT 137:232770

AB Chiral phosphines [e.g., (S)-N,O-bis(diphenylphosphino)- α,α -dimethyl-2-azetidine methanol, (I)] and their corresponding transition metal catalytic complexes were prepared. For example, (S)- α,α -dimethyl-2-azetidine methanol was reacted with chlorodiphenylphosphine to give 81 I, which is further reacted with [Rh(COD)₂]OTf to give the corresponding rhodium cyclooctadiene complex. In the presence of the rhodium complex, α -acetylamino-4-chlorostyrene is hydrogenated to give 90 N-acetyl-(4-chloro)- α -phenethylamine.

IT 459426-40-5P 459426-43-8P

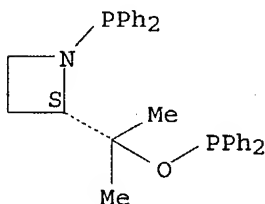
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of transition metal complexes containing chiral phosphine

ligands for use as asym. hydrogenation catalysts)

RN 459426-40-5 CAPLUS

CN Phosphinous acid, diphenyl-, 1-[(2S)-1-(diphenylphosphino)-2-azetidiny]-1-methylethyl ester (9CI) (CA INDEX NAME)

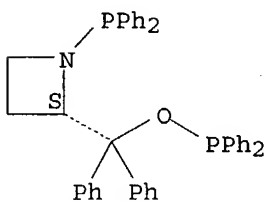
Absolute stereochemistry.



RN 459426-43-8 CAPLUS

CN Phosphinous acid, diphenyl-, [(2S)-1-(diphenylphosphino)-2-azetidiny]diphenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:820360 CAPLUS
 DOCUMENT NUMBER: 134:131628

TITLE: Free and Cr(CO)₃-Complexed Aminophosphine Phosphinite Ligands for Highly Enantioselective Hydrogenation of α -Functionalized Ketones

AUTHOR(S): Pasquier, Corinne; Naili, Said; Mortreux, Andre; Agbossou, Francine; Pelinski, Lydie; Brocard, Jacques; Eilers, Juergen; Reiners, Iris; Peper, Viola; Martens, Juergen

CORPORATE SOURCE: Laboratoire de Catalyse de Lille Groupe de Chimie Organique Appliquee, Ecole Nationale Supérieure de Chimie de Lille, Villeneuve d'Ascq, 59652, Fr.

SOURCE: Organometallics (2000), 19(26), 5723-5732
CODEN: ORGND7; ISSN: 0276-7333

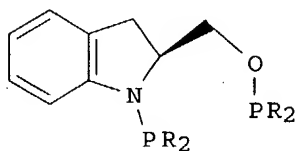
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:131628

GI



I

AB The synthesis and characterization of a new series of aryl- and cycloalkyl-substituted aminophosphine phosphinites, e.g. I (R = cyclopentyl), obtained from the reaction of the three precursors (S)-2-hydroxymethylazetidine, (S)-3-hydroxymethyl-1,2,3,4-tetrahydroisoquinoline, and (S)-2-hydroxymethylindoline and chlorophosphines is described. The aromatic ring in (S)-2-hydroxymethylindoline has allowed the synthesis and isolation of tricarbonyl chromium complexed amino alcs., which were similarly converted into the corresponding aminophosphine phosphinites, presenting a stereogenic center and a planar chirality. Ligand I ((S)-Cp,Cp-IndoNOP) revealed an unprecedented ³¹P NMR fluxional behavior related to a rotation inhibition around the P-heteroatom (N and O) bonds. These new AMPP ligands were used in the enantioselective hydrogenation of various α -functionalized ketones, i.e., dihydro-4,4-dimethyl-2,3-furandione 14, N-benzyl benzoylformamide 15, Et pyruvate 16, and 2-(N,N-dimethyl)aminoacetophenone hydrochloride 17. The stereoelectronic effects generated by the presence of the tricarbonyl chromium moiety onto the hydrogenations have been assessed. The beneficial effect of the matching chiralities in ligand associated with the use of the most appropriate nonchiral ligand Cl has resulted in a win of 13% of ee for the rhodium-based hydrogenation of 15. While using the most suitable new chiral AMPP ligand from this study, the four above-mentioned substrates were converted into the corresponding optically active alcs. in >99% ee (14/I), >99% ee (15/I), 87% ee (16/I), and >99% ee (17/I), resp.

IT 216592-61-9P 216592-67-5P 321744-12-1P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
USES (Uses)

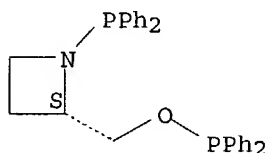
(preparation of free and chromium-complexed aminophosphine phosphinite ligands for highly enantioselective hydrogenation of

alpha-functionalized ketones)

RN 216592-61-9 CAPLUS

CN Phosphinous acid, diphenyl-, [(2S)-1-(diphenylphosphino)-2-azetidiny]methyl ester (9CI) (CA INDEX NAME)

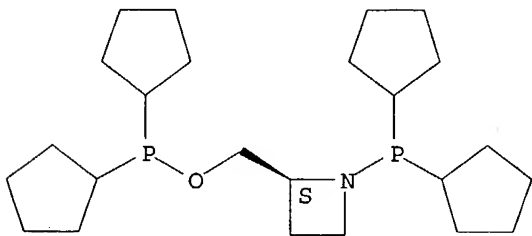
Absolute stereochemistry.



RN 216592-67-5 CAPLUS

CN Phosphinous acid, dicyclopentyl-, [(2S)-1-(dicyclopentylphosphino)-2-azetidiny]methyl ester (9CI) (CA INDEX NAME)

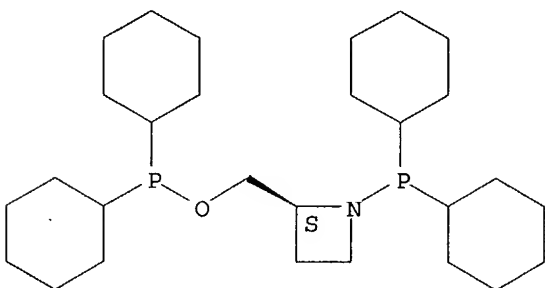
Absolute stereochemistry.



RN 321744-12-1 CAPLUS

CN Phosphinous acid, dicyclohexyl-, [(2S)-1-(dicyclohexylphosphino)-2-azetidiny]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

84

THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

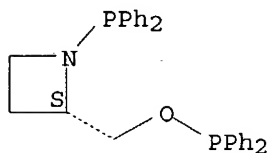
ACCESSION NUMBER: 1998:682695 CAPLUS

DOCUMENT NUMBER: 130:38471

TITLE: Enantioselective hydrogenation of functionalized ketones. Synthesis and application of new chiral aminophosphine-phosphinite ligands

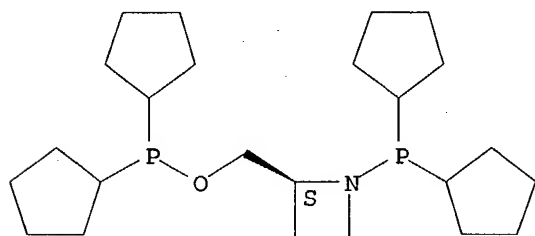
AUTHOR(S): Pasquier, Corinne; Eilers, Juergen; Reiners, Iris;
 Martens, Juergen; Mortreux, Andre; Agbossou, Francine
 CORPORATE SOURCE: Laboratoire Catalyse Heterogene Homogene, Groupe
 Chimie Organique Appliquee ENSC Lille, Universite
 Sciences Technologies Lille, Villeneuve d'Ascq,
 F-59652, Fr.
 SOURCE: Synlett (1998), (10), 1162-1164
 CODEN: SYNLES; ISSN: 0936-5214
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 130:38471
 AB Chiral aminophosphine-phosphinites were synthesized and applied
 successfully in the enantioselective hydrogenation of dihydro-4,4-dimethyl-
 2,3-furandione, PhCOCONHCH₂Ph, and Et pyruvate providing the corresponding
 hydroxy products in ≤ 97 , 95, and 80% ee, resp.
 IT 216592-61-9P 216592-67-5P
 RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
 USES (Uses)
 (preparation of chiral aminophosphine-phosphinite ligands and application in
 asym. hydrogenation of ketones)
 RN 216592-61-9 CAPLUS
 CN Phosphinous acid, diphenyl-, [(2S)-1-(diphenylphosphino)-2-
 azetidiny]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 216592-67-5 CAPLUS
 CN Phosphinous acid, dicyclopentyl-, [(2S)-1-(dicyclopentylphosphino)-2-
 azetidiny]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT